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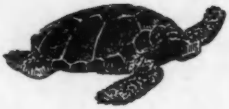

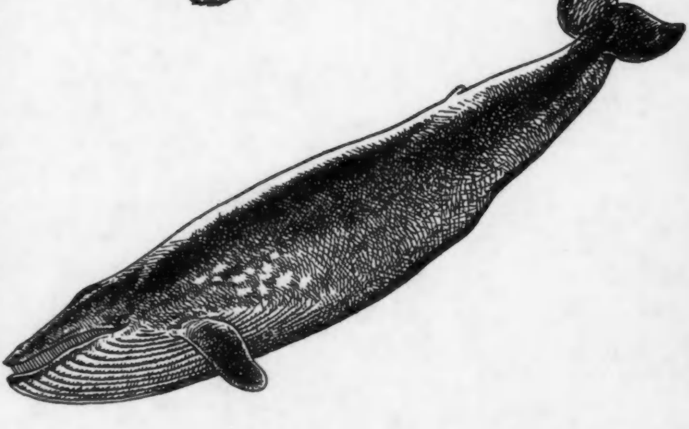

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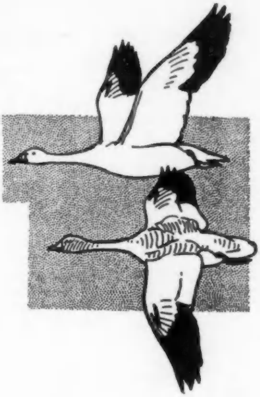

BOOK REVIEW

Doughty, R. W. 1989. *The Mockingbird*. The University of Texas Press, P.O. Box 7819, Austin, TX 78713. 80 pp. Available from the publisher at $12.95 (cloth).

This small, beautifully produced book contains "everything you ever wanted to know about mockingbirds but were afraid to ask." The book abstracts both scientific information and common lore about mockingbirds, but presents it in a manner that might not be considered fully scientific. Varying amounts of anthropomorphisms and scientific information are woven together in chapters on distribution, life history, conservation, American culture, state birds, and folklore. References are given in a terminal listing but are not cited in the text.

I would recommend this book as a must for "mockerophiles" but would caution biologists that its scientific content is minimal.--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

BOOK REVIEWS

Odum, E. P. 1989. *Ecology and Our Endangered Life-Support Systems*. Sinauer Associates, Incorporated, Sunderland, Mass. 283 pp. Available from Blackwell Scientific Publications, Inc., Three Cambridge Center, Suite 208, Cambridge, MA 02142 at $14.95 (paper).

This is a book that applies the author's approaches to community and ecosystem ecology using examples from current problems facing our society. This is an excellent exposition that is suitable for advanced high school students or introductory lower division college courses in systems or ecosystem ecology. Although much of the material is dated, recent references that seem pertinent are included.

The tone for the book is set by a prologue that compares the Apollo 13 crisis with the current ecological crisis that faces "Spaceship Earth." An epilogue, "The transition from youth to maturity," presents the reader with the rationale for a more rational use of the earth's resources, rather than an unlimited economic growth policy that would eventually cripple the earth's capacity for life as we know it.

Chapters in the new treatment include "the life support environment" that discusses both natural and man-derived environments on the earth and the general proportion of each; "levels of organization" that considers hierarchical levels of both ecological and economic systems as well as the elements of model building; "the ecosystem" treats the energy and energy flow in ecosystems and communities; "material cycles" on the hydrological cycle, elemental cycles, resource flows, and toxicological contamination of the biosphere; "population ecology" on population growth forms and models, and 2-species interactions; "development and evolution" on succession, ecosystem speciation, and island biogeographic concepts; and "major ecosystem types" that includes discussions of the major world ecosystems and the ecological problems they face.

Teachers of introductory biology or ecology classes that include a segment on ecology or environmental problems should consider using this book as an excellent exposition of the ecological problems that face mankind.--Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

McIntyre, Judith W. 1988. *The Common Loon: Spirit of Northern Lakes*. University of Minnesota Press, 2037 University Avenue, S.E., Minneapolis, MN 55414. xii + 228 pp. Available from the publisher at $25.00 (cloth).

The last serious monograph on the common loon was written nearly 40 years ago (Olson and Marshall 1952: The Common Loon in Minnesota). Much of what we have learned since then about this bird, listed as threatened in several states, is the result of the author's 20 years of research in Minnesota, New York, coastal Virginia, and Saskatchewan. Introductory material on myths, legends, and beliefs is followed by chapters on the following topics: arrival (on breeding grounds) and territorial behavior; courtship, mating, and nesting; the loon family; parasites and diseases; behavioral ecology; social behavior; communication; evolution and classification; anatomy and plumage; distribution and migratory routes; human impact; and "a caring world." The emphasis throughout this book is on loon behavior, a subject on which Dr. McIntyre is the acknowledged expert.

The book is illustrated with line drawings and 10 pages of color plates. Some 11 pages of references, an appendix listing all known internal parasites, and an index are included. An extra bonus is a disc-recording of loon vocalizations, including the rarely witnessed vocalizations between parent and young.

Dr. McIntyre expresses a wish in the acknowledgments that the book could be enjoyed both by ornithologists and the general public. She very likely makes this possible. Numerous tables complement the text, but most are not essential for comprehension, serving rather as additional material for the serious reader. The author writes in an objective, scientific style, yet she's not afraid to speculate and it's clear whenever she is doing that. Each chapter includes a discussion of what is not known, with specific suggestions for further research. This is an extremely worthwhile book, recommended reading for any professional nongame biologist or for anyone else with an interest in loons.--Diana Cross, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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BOOK REVIEW

De Jong, G. (ed.). 1987. *Population Genetics and Evolution*. Springer Verlag, New York, Inc., 175 Fifth Ave., New York, NY 10010. 282 pp. + 70 figures. Available from the publisher at $89.50 (cloth).

"Is population genetics necessary and sufficient for a theory of evolution?" The introductory chapter of this symposium of European evolutionary biologists shows how each paper in the symposium contributes to answering this question. Aside from this introductory chapter, the book lacks a focus and reads like an issue of a journal for population geneticists, such as *Heredity* or *Evolution*.

Population genetics is one of several tools for studying evolution. Other tools for studying evolution included in the symposium are mathematical models, selection experiments, heritability estimates, enzyme electrophoresis, molecular analysis, morphological analysis, gene mapping, experimental introductions, and field studies. Authors of most of the 27 chapters briefly review their published studies on species as diverse as ants, moths, bugs, beetles, birds, frogs, weeds, yeast, parasitoids, and *Drosophila*.

Highlights of some chapters follow. Dhondt illustrates how cross-fostering experiments provide controls for heritability estimates for traits measured in free-living birds. Heritability estimates of tarsus length measured annually for 6 years ranged from 0.38 to 1.07! Testing assumptions of population genetics models used in understanding variation in morphological traits is beyond what can be easily done with free-living birds. Greater advances in assessing evolution can be achieved by choosing species with well-defined genetics. For example, Templeton and Johnston trace a phenotype, abnormal abdomen in *Drosophila*, from its molecular origin, physiological consequence, to the frequency of the phenotype under a variety of ecological settings.

Brakefield updates the industrial melanism story by showing that moths hide under tree bark or the underside of tree branches, which makes them less vulnerable to visual predators, such as birds. Several causes of industrial melanism are considered, including other functions of pigments resulting in industrial melanism. De Jong uses Berven's field and laboratory experiments on frog morphology to develop a model of developmental rates that is pertinent to the ongoing debate about evolution being dominated by gradual or rapid changes. Scharloo reports a complex series of experiments on canalization of bristle numbers in *Drosophila*.--Ann Eileen Miller Baker, Biology Department, Colorado State University, Fort Collins, CO 80523.

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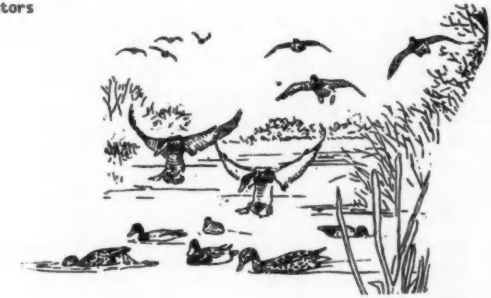

BOOK REVIEWS

Weller, M. W. 1987. *Freshwater Marshes: Ecology and Wildlife Management*, Second edition. University of Minnesota Press, 2037 University Avenue, S.E., Minneapolis, MN 55414. 150 pp. Available from the publisher at $25.00 (cloth) and $12.95 (paper).

This second edition of Milton W. Weller's introduction to freshwater marsh ecology and management covers the same material as the first edition, but the text has been updated throughout. Some of the changes are subtle, e.g., terms have been changed to match current usage and concepts such as wetland succession have been clarified. Other changes reflect an increase in knowledge of wetland processes since the 1981 edition such as new consideration of economic and other wetland values. Still other changes reflect increasing concern for wetlands losses such as description of the negative aspects of reservoirs that replace emergent wetlands with open water and the potential uses of mitigation to offset wetlands losses. Most importantly, the text has incorporated the latest wetland classification systems, the most recent estimates of wetlands losses, and current views of best means to manage marshes for waterfowl and furbearers. Overall, the literature has been brought up-to-date through 1985, and a useful glossary of wetland and other terms has been added. Although the revision process resulted in obvious loss of margin space in some of the chapters, and the new type is usually detectable as such where it has been inserted, these small aggravations do not detract from the value of this review volume.

Weller's text, largely written for the nonscientist or scientists in fields other than wetlands ecology, emphasizes the necessary steps to both maintain the value of and preserve freshwater wetlands, with a focus on management for particular groups of birds and mammals. Although many of the text's examples are from the glacially formed marshes of the Midwest where Weller conducted much of his research, the discussion is an excellent introduction to all freshwater wetlands. Both the ecology of wetland systems and the effects of man upon wetland processes are illustrated with theoretical explanations and specific examples. This book remains one of only a few successful attempts to illustrate functional relationships between fauna (especially birds) and wetland quantity, quality, and distribution.

Freshwater Marshes is recommended for all newcomers to wetlands ecology, those interested in an uncomplicated first reference source for much of the wetlands literature, and all whose daily tasks involve explaining wetlands processes to the public.--Ronald E. Kirby, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

Chabreck, R. A. 1988. *Coastal Marshes: Ecology and Wildlife Management*. University of Minnesota Press, 2037 University Avenue, S. E., Minneapolis, MN 55414. 138 pp. Available from the publisher at $25.00 (cloth) and $12.95 (paper).

This short text provides an overview of coastal marsh form, function, ecological relationships, and wildlife and other values. The geographic emphasis is upon the marshes of the northern coast of the Gulf of Mexico, but some examples are provided from Pacific and Atlantic coastal marshes. The focus throughout is on proper management and safeguarding of coastal marshes. The distribution of coastal marshes and the influence of environmental factors on development and maintenance of coastal marshes are presented in an overview. Ecological processes in the marsh are then briefly described and the plant and animal communities of a typical salt marsh are discussed in individual chapters. Marsh values to man are described with an emphasis upon economic return obtained from sport hunting, fur harvest, and livestock grazing, but storm protection and water quality attributes are also addressed. Final sections discuss alteration and loss of coastal marsh, a number of useful management techniques, and the future of coastal marsh ecosystems. A list of scientific names, a glossary, and a list of literature citations complete the text.

This volume, one of a series from the University of Minnesota Press, adequately introduces the topic to the layman, but anyone familiar with the ecology of coastal marshes will be disappointed by the volume's limited critical review of the ecological effects of the various marsh manipulations that are proposed and the text's almost exclusive emphasis on Gulf coastal marsh. Despite these shortcomings for the professional ecologist, the text adequately fulfills its purpose of providing general information about coastal marshes, and would be a good first volume for a layperson audience, particularly those persons interested in an overview of the northern Gulf of Mexico coastal system. Those interested in an overview of detailed and thorough review of coastal marsh ecology and management should consult Franklin C. Daiber's recent volume, *Conservation of Tidal Marshes* (1986, Van Nostrand Reinhold Co., Inc.).--Ronald E. Kirby, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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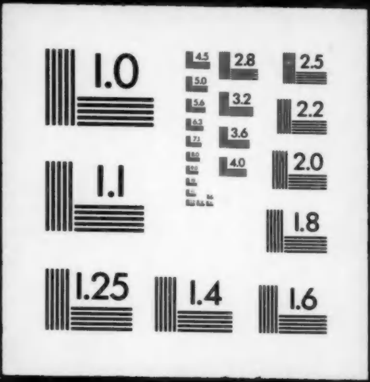
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